

USER MANUAL

PIM-3012_24C SERIES

MODIFIED SINE WAVE INVERTER WITH CHARGER

V.2.1



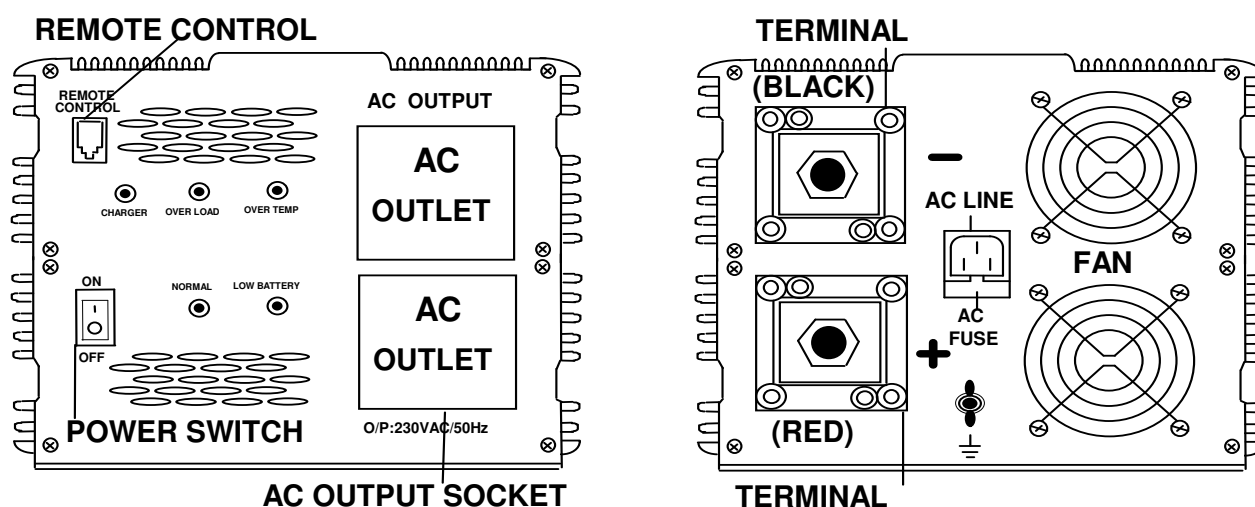
Please read user manual before use.

USEFUL APPLICATIONS

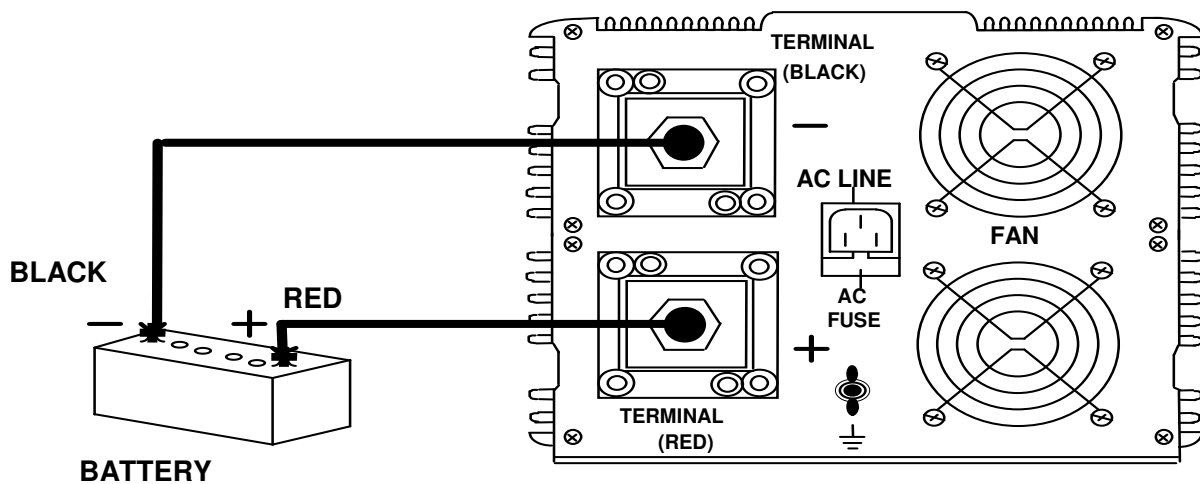
RUN NOTEBOOK COMPUTERS, RADIOS, TVS, VCERS,
LAMPS, FANS, FAX, DRILL, ETC.

PRODUCT SPECIFICATION

INPUT VOLTAGE RANGE : DC 10~15V (12V) // DC 20~30V (24V)
INPUT FULL LOAD CURRENT : 300A (12V) // 150A (24V)
STANDBY INPUT CURRENT : <0.7A (12V) // <0.6A (24V)
OUTPUT VOLTAGE (AC) : 220V~240V
OUTPUT WAVEFORM : MODIFY SINE WAVE
OUTPUT FREQUENCY : 50Hz or 60Hz
CONTINUE OUTPUT POWER : 3000W
PEAK OUTPUT POWER : 6000W
EFFICIENCY : 85~90%
BATTERY LOW PRE-ALARM : $10.5 \pm 0.5V$ (12V) // $21 \pm 0.5V$ (24V)
BATTERY LOW SHUTDOWN : $10 \pm 0.5V$ (12V) // $20 \pm 0.5V$ (24V)
THERMAL PROTECT : $60 \pm 5^{\circ}C$ (MICROCONTROLLER)
AUTO-OPERATION FAN (TEMPERATURE OR LOAD)
OVER LOAD PROTECT : YES (MICROCONTROLLER)
OUTPUT SHORT PROTECT : YES (MICROCONTROLLER)
BATTERY EX. 12V / 24V PROTECT : YES (MICROCONTROLLER)
BATTERY POLARITY PROTECT : YES (BY FUSE)
FUSE : 25A*16PCS (12V) // 15A*16PCS (24V)
TRANSFER TIME : 16m SEC
CHARGER CURRENT : MAX. 10A (12V) // 5A (24V)
DIMENTION (L*W*H) mm : 420*169*152
WEIGHT : 8.2Kg



CAUTION : DO NOT REVERSE INPUT. USE RED BATTERY CORD TO CONNECT (+) OF A DC BATTERY TO (+) TERMINAL. AND THEN, USE BLACK BATTERY CORD TO CONNECT (-) BATTERY TO (-) TERMINAL.

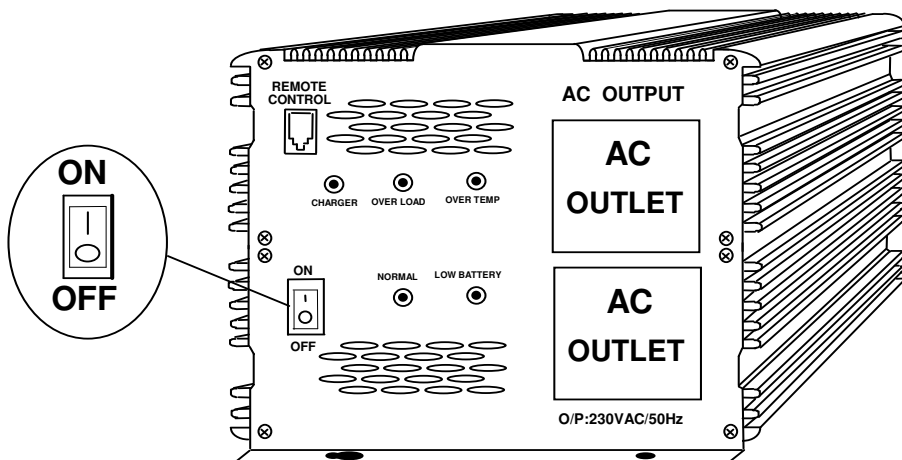


WARNING SOUND – PRE-ALARM

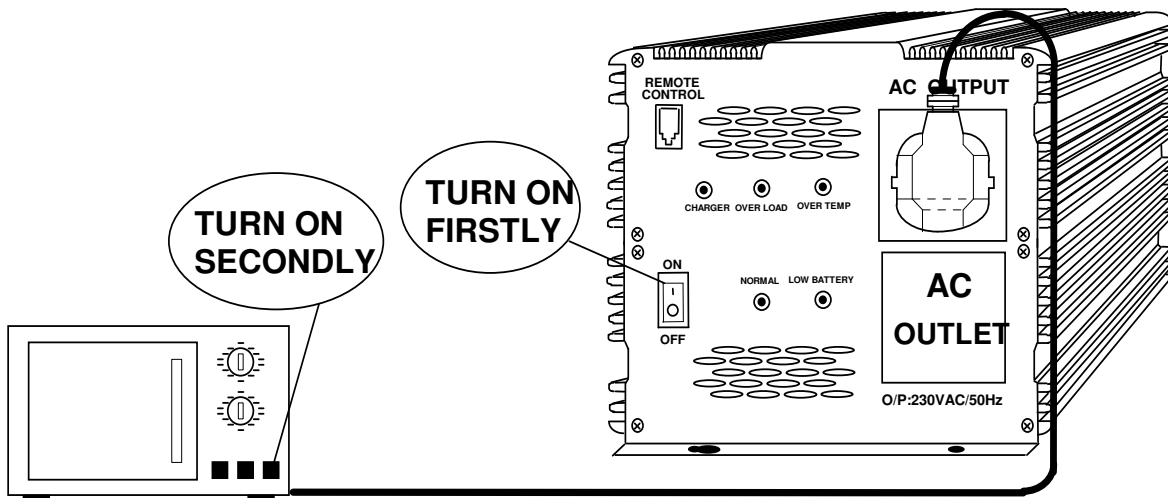
LOW-BATTERY BI-----BI-----BI
 OVER-HEATING BI---BI---BI---BI---BI
 OVERLOAD BI-BI-BI-BI-BI-BI-BI

NORMAL OPERATION

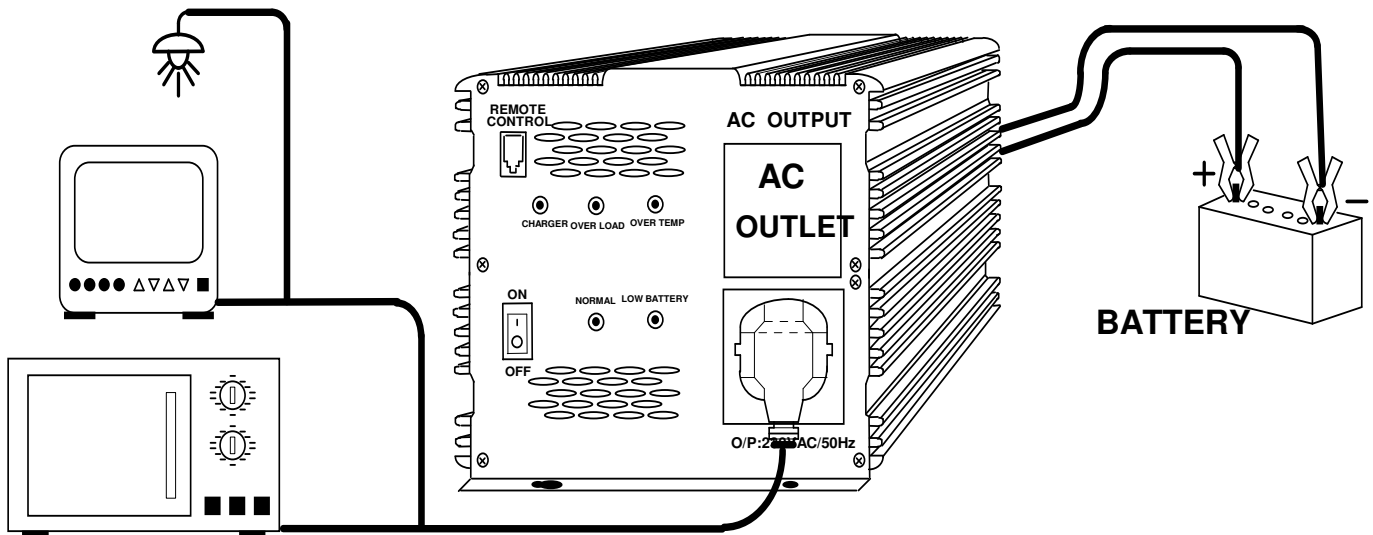
STEP 1: MAKE SURE POWER SWITCH IS “OFF”.



STEP 2: WHEN CONNECTED TO ANY APPLIANCE, BE SURE TO TURN ON INVERTER FIRST BEFORE SWITCHING ON THE POWER OF THE APPLIANCE.

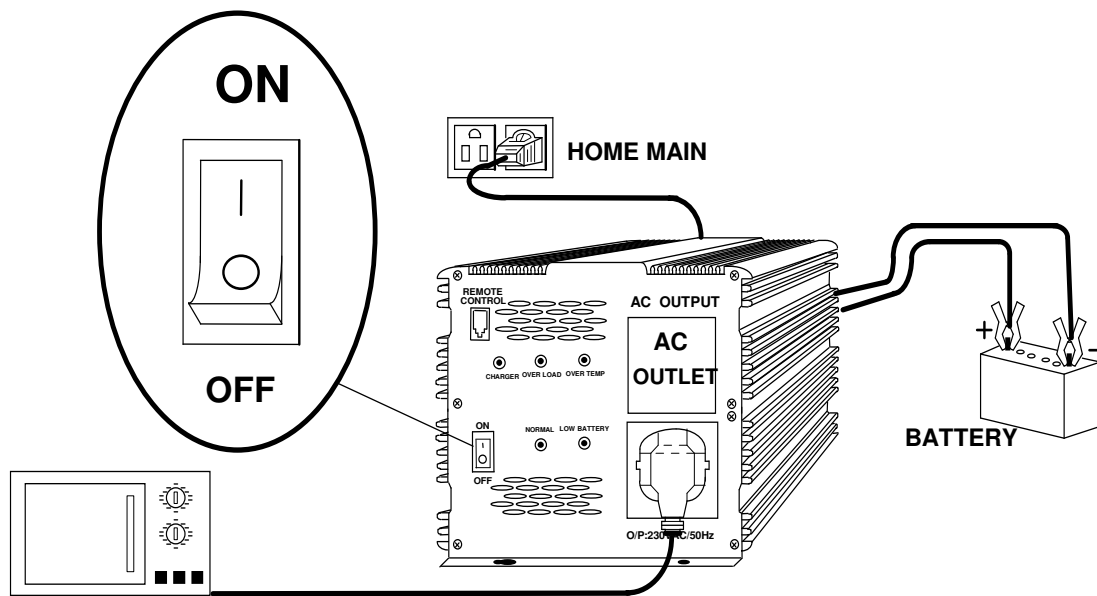


CAUTION: WHEN USING THE INVERTER, DO NOT EXCEED ITS MAXIMUM OUTPUT POWER. MAKE SURE THE TOTAL STARTING POWER CAPACITY DOES NOT EXCEED THE MAXIMUM OUTPUT POWER OF THE INVERTER.



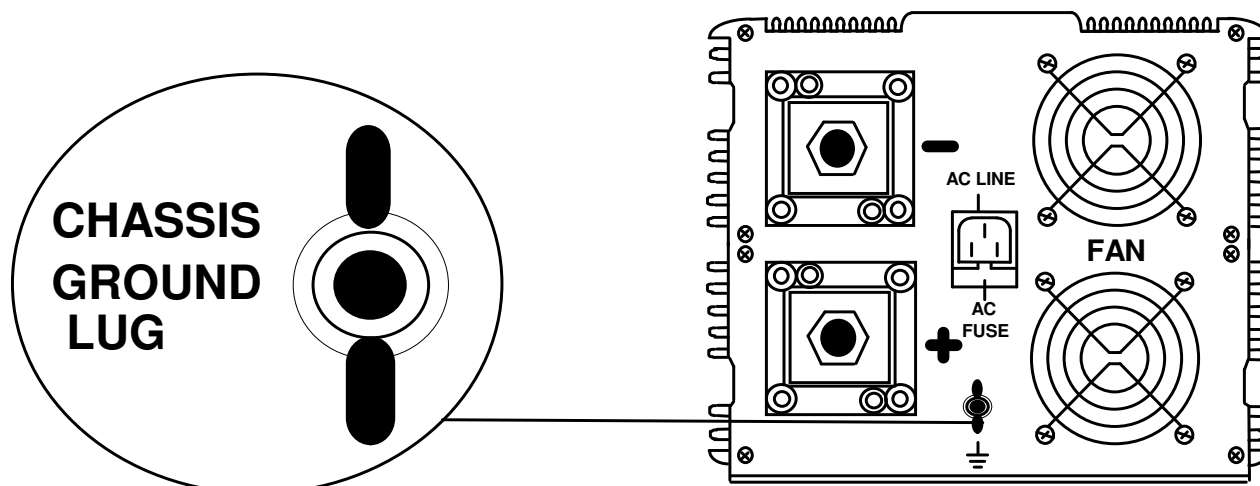
UPS FUNCTIONALITY

NOTE: IF YOU WANT TO USE THIS UNIT AS AN UPS, TURN ON THE SWITCH OF THE INVERTER AT FIXED POSITION. WHEN THE BLACKOUT OCCURS, THE INVERTER WILL DIVERT POWER SOURCE AUTOMATICALLY FROM HOME MAIN TO BATTERY TO PROVIDE POWER TO APPLIANCE.



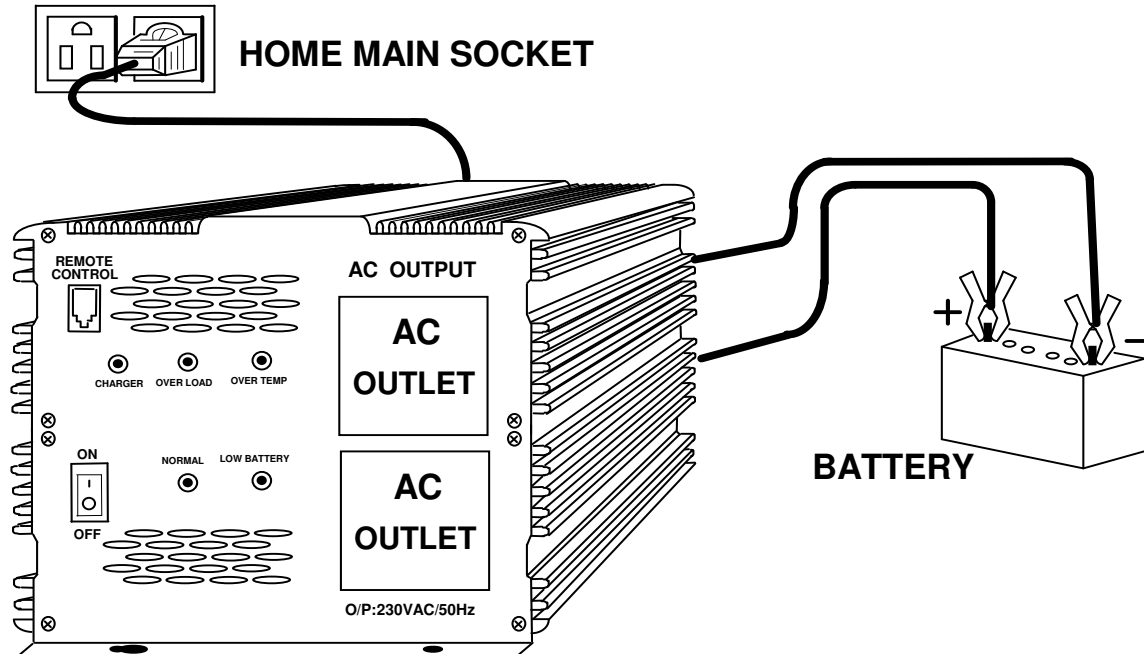
CHASSIS EARTH

THE CHASSIS GROUND LUG SHOULD BE CONNECTED TO GROUND. IN A VEHICLE, CONNECT THE GROUND LUG TO THE CHASSIS OF THE VEHICLE. WHEN IN A BOAT, CONNECT TO THE BOAT'S GROUND SYSTEM. AT A FIXED LOCATION ON LAND, CONNECT DIRECTLY TO GROUND.

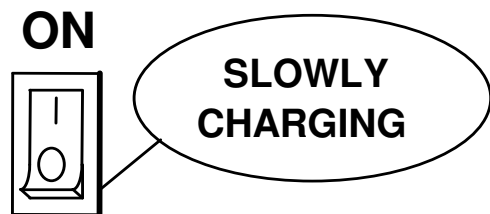


AC CHARGER

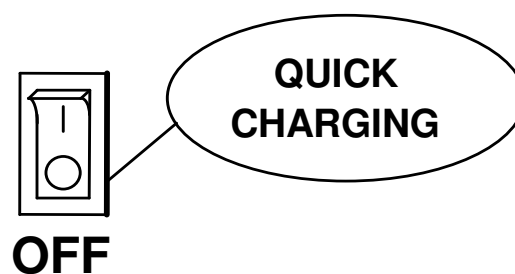
CONNECT AC INPUT POWER CORD TO HOME MAIN SOCKET FIRST, THEN CONNECT INVERTER TO BATTERY BY MATCHING RED BATTERY WIRE TO POSITIVE TERMINAL (+) OF THE BATTERY AND BLACK BATTERY WIRE TO NEGATIVE TERMINAL (-) OF THE BATTERY.



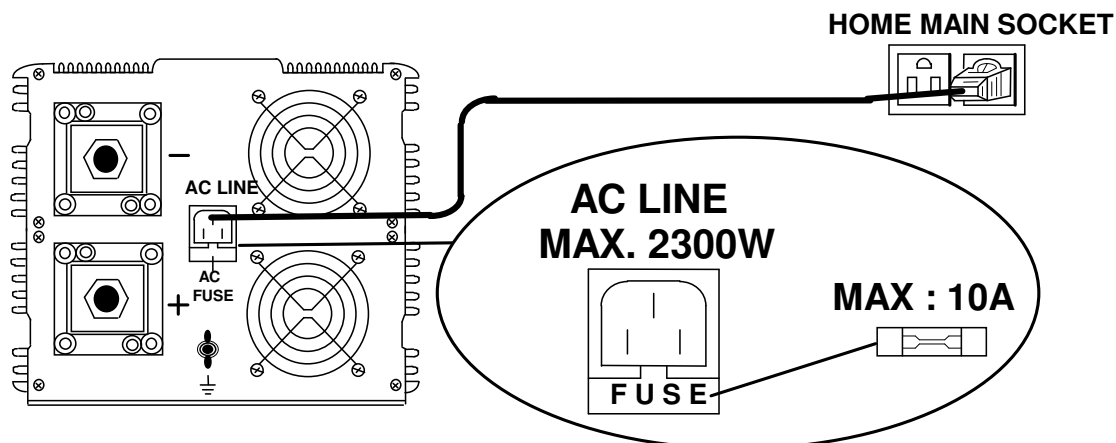
POWER SWITCH ON



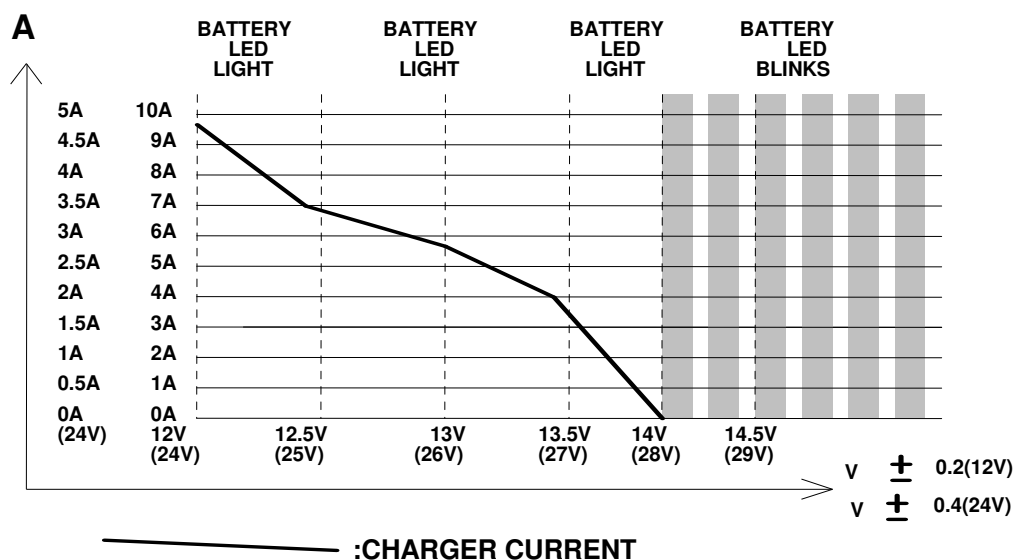
POWER SWITCH OFF



WARNING



BATTERY LED ON/OFF INDICATIVE CHART



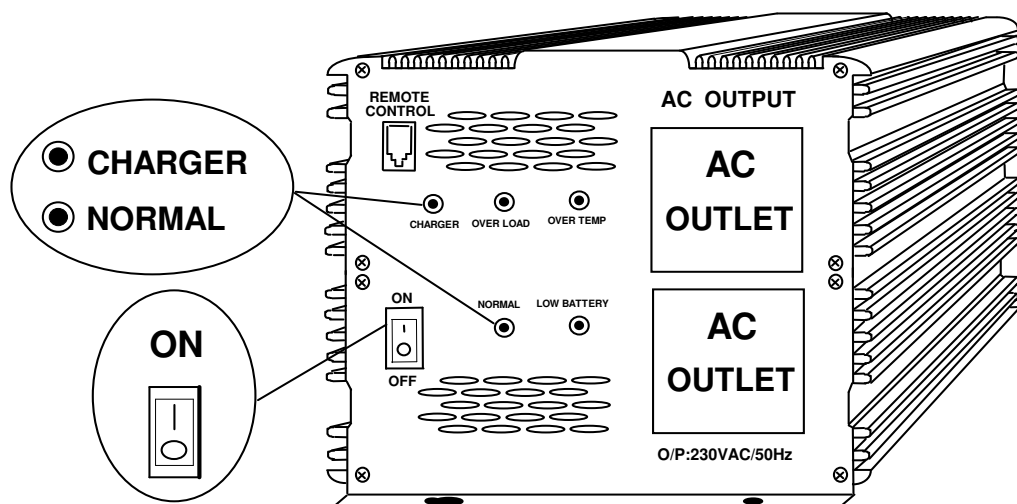
LED INDICATORS

NORMAL LED "ON": POWER ON, INVERTER STANDBY

NORMAL LED "OFF": POWER OFF

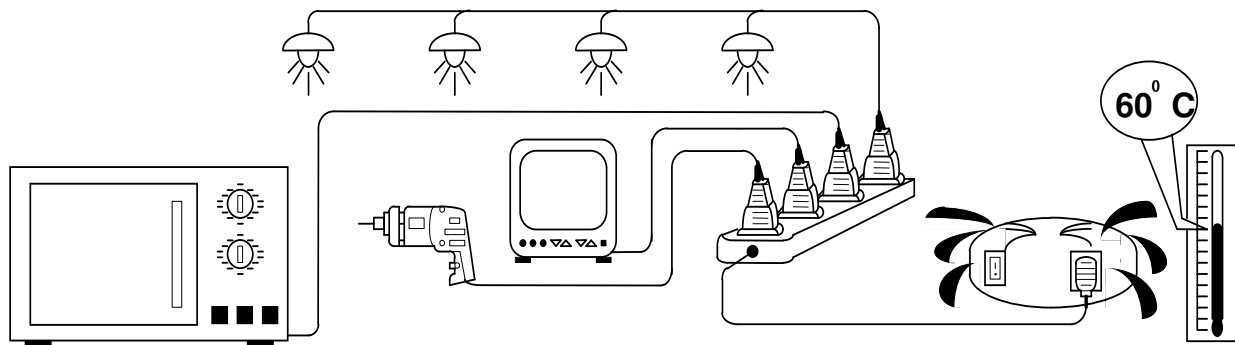
CHARGER LED "ON": BATTERY CHARGING

CHARGER LED "BLINKING": FULL BATTERY



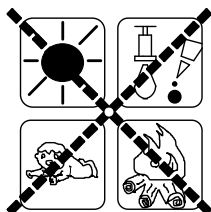
NOTE:

IF TOTAL ENERGY REQUIREMENT EXCEEDS THE OUTPUT CAPACITY OF INVERTER, OR IF AFTER OPERATING FOR AN EXTENDED PERIOD OF TIME, OR IF THE TEMPERATURE OF INVERTER REACHES 60°C, INVERTER OUTPUT WILL REDUCE BY THE PROTECTION CIRCUIT.



CAUTION

- * ALWAYS PLACE THE INVERTER IN AN ENVIRONMENT WHICH IS :
- (A) WELL VENTILATED
 - (B) NOT EXPOSED TO DIRECT SUNLIGHT OR HEAT SOURCE
 - (C) OUT OF REACH FROM CHILDREN
 - (D) AWAY FROM WATER/MOISTURE, OIL OR GREASE
 - (E) AWAY FROM ANY FLAMMABLE SUBSTANCE



WARNING - FLUORESCENT LAMP:

DO NOT USE THIS DEVICE WITH FLUORESCENT LAMPS.

